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| ING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|--------------------------------------|---|--|
| 3/18/2004 | Zhenan Bao | ABE 1-38-1-3 | 5968 |
| 11/30/2005 | | EXAMINER | |
| HITT GAINES, PC LUCENT TECHNOLOGIES INC. PO BOX 832570 | | ESTRADA, MICHELLE | |
| | | ART UNIT | PAPER NUMBER |
| 75083 | | 2823 | · |
|) | 3/18/2004 11/30/2005 GIES INC. | 3/18/2004 Zhenan Bao 11/30/2005 GIES INC. | ### Zhenan Bao ABE 1-38-1-3 #### I1/30/2005 EXAM ### ESTRADA, I GIES INC. ART UNIT |

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| 3 | | | | | |
|---|---|---|--|--|--|
| | Application No. | Applicant(s) | | | |
| | 10/803,244 | BAO ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Michelle Estrada | 2823 | | | |
| The MAILING DATE of this communication ap Period for Reply | pears on the cover sheet with the | correspondence address | | | |
| • • | VIC OFF TO EVEIDE AMONT | LICEN OR THURTY (20) RAVE | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON | ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on 09 S | September 2005. | | | | |
| 2a) This action is FINAL . 2b) ⊠ This | This action is FINAL . 2b)⊠ This action is non-final. | | | | |
| 3) Since this application is in condition for allowa | ance except for formal matters, p | rosecution as to the merits is | | | |
| closed in accordance with the practice under | Ex parte Quayle, 1935 C.D. 11, | 453 O.G. 213. | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 1-9 is/are pending in the application. | | | | | |
| 4a) Of the above claim(s) is/are withdra | wn from consideration. | | | | |
| 5) Claim(s) is/are allowed. | | | | | |
| 6)⊠ Claim(s) <u>1-3,5 and 9</u> is/are rejected. | | | | | |
| 7) Claim(s) <u>4 and 6-8</u> is/are objected to. | | • | | | |
| 8) Claim(s) are subject to restriction and/o | or election requirement. | | | | |
| Application Papers | · | | | | |
| 9)☐ The specification is objected to by the Examine | er. | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ acc | cepted or b) objected to by the | e Examiner. | | | |
| Applicant may not request that any objection to the | = ' ' | * * | | | |
| Replacement drawing sheet(s) including the correct | | • | | | |
| 11)☐ The oath or declaration is objected to by the E. | xaminer. Note the attached Office | ce Action or form PTO-152. | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: | n priority under 35 U.S.C. § 119(| a)-(d) or (f). | | | |
| Certified copies of the priority document | ts have been received. | | | | |
| 2. Certified copies of the priority document | | | | | |
| 3. Copies of the certified copies of the price | • | ved in this National Stage | | | |
| application from the International Burea * See the attached detailed Office action for a list | • | vod | | | |
| See the attached detailed Office action for a list | or the certified copies flot fecen | YGU. | | | |
| | | | | | |
| Attachment(s) | | | | | |
| 1) X Notice of References Cited (PTO-892) | 4) Interview Summa | | | | |
| Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | Paper No(s)/Mail I | Date Patent Application (PTO-152) | | | |
| Paper No(s)/Mail Date | 6) Other: | · · · · · · · · · · · · · · · · · · · | | | |

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Kagan et al. (2004/0185600).

Re claim 1, Kagan et al. disclose a substrate (559) having a planar surface; first and second electrodes (552/553) located on said planar surface, said first electrode (552) having a top surface and a lateral surface, said lateral surface having an edge near said substrate; an electrode insulating layer (551) located on said top surface; a self-assembled layer (500) located on said lateral surface; and wherein said second electrode (553) is in contact with both said self-assembled layer and said electrode insulating layer (See fig. 5).

Re claim 2, Kagan et al. disclose wherein said self-assembled layer comprises a stack of at least two self-assembled layers.

Re claim 3, Kagan et al. disclose wherein said stack of self-assembled layers comprises an end group of a first organic molecule in a first self-assembled layer chemically coupled to an end group of a second organic molecule in a second self-assembled layer (Page 4, paragraphs [0066], [0067] and [0073]).

Re claim 5, Kagan et al. disclose wherein said self-assembled layer comprises non-conductive organic molecules.

Re claim 9, Kagan et al. disclose wherein a footprint of said electrode insulating layer is substantially aligned with said top surface.

Allowable Subject Matter

Claims 4 and 6-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle Estrada whose telephone number is 571-272-1858. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2800.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michelle Estrada Patent Examiner Art Unit 2823

ME

November 17, 2005